

508,856  
10/508856

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number  
WO 03/080966 A1(51) International Patent Classification<sup>7</sup>: E04H 9/12

(21) International Application Number: PCT/EP03/02828

(22) International Filing Date: 18 March 2003 (18.03.2003)

(25) Filing Language: English

(26) Publication Language: English

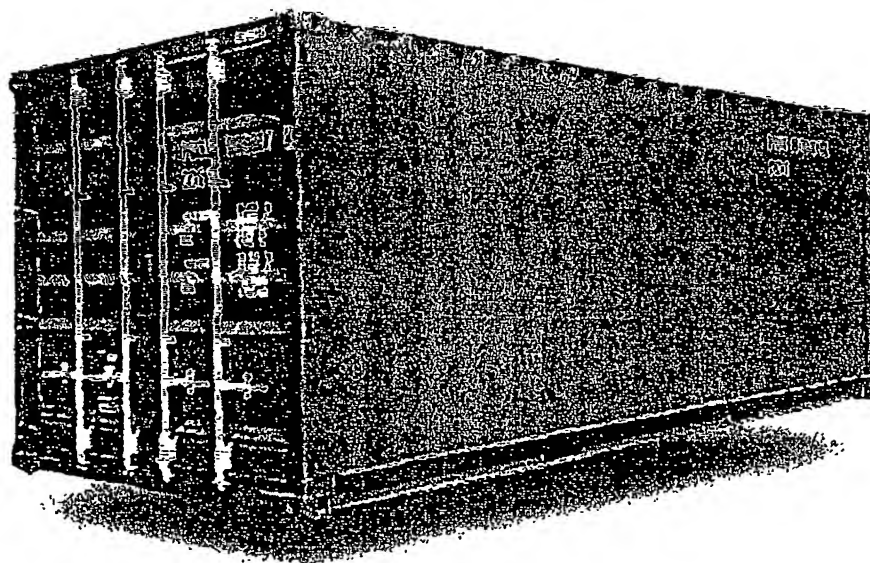
(30) Priority Data:  
0207254.4 27 March 2002 (27.03.2002) GB(71) Applicant (for all designated States except US): COM-  
POSHIELD A/S [DK/DK]; Lucernevej 11, DK-9320  
Hjallerup (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LANGE-KO-  
RNBACK, Dan [DK/DK]; Hejrevej 26, 3, DK-2400  
Copenhagen NV (DK). BONDE, Hans, Soeren [DK/DK];  
Composhield A/S, Lucernevej 11, DK-9320 Hjallerup(DK). NIELSEN, Lars [DK/DK]; Composhield A/S,  
Lucernevej 11, DK-9320 Hjallerup (DK). KELTER-WE-  
SEBERG, Niels [DK/DK]; Composhield A/S, Lucerne-  
vej 11, DK-9320 Hjallerup (DK).(74) Agent: WALLS, Alan, James; K R Bryer & Co., 7 Gay  
Street, Bath BA1 2PH (GB).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG,  
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: BARRIER-PROTECTED CONTAINER

(57) Abstract: A blast-and projectile-impact resistant structure comprising a freight container which is at least partially clad inter-  
nally and/or externally with a barrier structure comprising a single panel or a plurality of panels of matrix material incorporating  
reinforcement elements, the structure having means for human entry into and exit from the interior of the container located in a wall  
and, if necessary also in the barrier structure.

BEST AVAILABLE COPY



WO 03/080966 A1

WO 03/080966 A1



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/02828

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04H9/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 30 03 988 A (HAEUSSLER WILHELM DIPL ING DIP) 13 August 1981 (1981-08-13) the whole document ---	1-24
A	DE 35 21 884 C (BAETZ BERNHARD; GUENTER HERMANN; SPECHT WOLFGANG; VOOREN WOLFGANG; ZIMM) 9 October 1986 (1986-10-09) the whole document ---	1-24
A	DE 37 16 795 C (WESTERWAELEDER EISEN GERHARD) 18 August 1988 (1988-08-18) the whole document ---	1-24
A	FR 2 586 742 A (SIDETEL) 6 March 1987 (1987-03-06) the whole document ---	1-24
	--- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

11 June 2003

Date of mailing of the international search report

- 1 07 2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

ÅKE OLOFSSON/JA A

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/02828

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 233 808 A (CAMPENON BERNARD SA) 26 August 1987 (1987-08-26) the whole document ---	1-24
A	US 4 722 155 A (ERICSSON BENGT) 2 February 1988 (1988-02-02) the whole document ---	1-24
A	US 6 128 878 A (ERICKSON DAYLE EUGENE) 10 October 2000 (2000-10-10) the whole document -----	1-24

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/02828

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3003988	A	13-08-1981	DE 3003988 A1	13-08-1981
			AT 4236 T	15-08-1983
			DE 3160615 D1	25-08-1983
			EP 0033907 A2	19-08-1981
			JP 56122481 A	25-09-1981
			US 4370934 A	01-02-1983
DE 3521884	C	09-10-1986	DE 3521884 C1	09-10-1986
DE 3716795	C	18-08-1988	DE 3716795 C1	18-08-1988
FR 2586742	A	06-03-1987	FR 2586742 A1	06-03-1987
EP 0233808	A	26-08-1987	FR 2593217 A1	24-07-1987
			EP 0233808 A1	26-08-1987
US 4722155	A	02-02-1988	SE 440112 B	15-07-1985
			AT 41463 T	15-04-1989
			AU 5062885 A	15-05-1986
			DE 3568815 D1	20-04-1989
			DK 284286 A ,B,	17-06-1986
			EP 0199778 A1	05-11-1986
			FI 862677 A ,B,	24-06-1986
			JP 62500672 T	19-03-1987
			NO 862418 A ,B,	17-06-1986
			SE 8405336 A	15-07-1985
			WO 8602688 A1	09-05-1986
			SE 461287 B	29-01-1990
			SE 8602643 A	13-06-1986
US 6128878	A	10-10-2000	US 6318693 B1	20-11-2001